

HIGH SOLIDS CLOSED-LOOP PRESSURE WASHER SYSTEM

ABSTRACT

A closed-loop pressure washing system adapted for removal and recovery of high solids contaminants from an object. The washing system includes a support platform 5 having a support surface that supports the object while a washing fluid is flowed over the object to remove the high solids contaminant. A collection device is provided in flow communication with the support surface, and is adapted to collect and channel the run-off washing fluid and run-off high solids contaminant from the support surface towards a collection basin. A high solids separation assembly is in flow 10 communication with the collection basin, and is adapted to separate and displace the collected high solid contaminants from the collected run-off fluids in the collection basin to a discard region spaced-apart from the collection basin. This separation assembly, however, substantially maintains the run-off washing fluid in the collection 15 basin. The washing system further includes a clarifying reservoir in flow communication with the collection basin, and is configured to hold the run-off fluid therein for reuse back to the washing system.